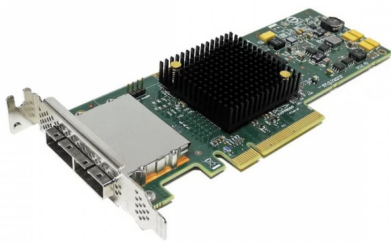


Broadcom 9205-8e Datasheet



Broadcom LSI 9205-8e LSI00285 PCIe 2.0 x8 LSISAS2308 8 External Ports 6Gb/s SAS+SATA Host Bus Adapter

9205-8e

The LSI SAS 9205-8e host bus adapter provides high performance connectivity for 1U/2U mid to high-end servers that connect to large scale storage enclosures. The LSI SAS 9205-8e is based on the LSISAS2308 IO controller that highly integrates the latest enhancements in PCI Express and SAS technology and supports up to 1024 SAS or SATA devices.

The LSI SAS 9205-8e has two (x4) external mini SAS connectors (SFF8088) which provide SAS and SATA data transfer rates of 1.5, 3 and 6Gb/s per lane through automatic speed negotiation and can achieve over 550,000 IOPs. Enhanced features include T-10 Protection Information Model for early detection of and recovery from data corruption, and Spread Spectrum Clocking (SSC) for minimal EMI.

Features

- 6 Gbps data transfer rate per port
- Two x4 external SFF8088 mini-SAS connectors
- x8 5 Gbps PCI Express 2.0 host interface
- MD2 low-profile form-factor design
- Maximum power usage of 9 W
- Connects to SAS and SATA HDDs, SSDs, and tape drives

- Support for up to 1024 end devices
- Fusion-MPT architecture can achieve more than 550,000 I/Os per second
- Supports all major operating systems
- RoHS compliant
- Highest performance 8-port adapter offered
- Flexible SATA+SAS array architecture optimizes cost
- 8 external high-speed SAS ports for maximum mass-storage connectivity
- SATA+SAS interconnect proven through the LSI robust serial technology
- Environmentally friendly due to low-power consumption

Specifications

- Product: LSI SAS 9205-8e
- OPN: LSI00285
- I/O Controller: LSISAS2308, Fusion MPT 2.0
- Storage Connectivity Data Transfer Rates: 8 ports, 6Gb/s SAS 2.1 Compliant
- SAS Bandwidth: Half Duplex; 600 MB/s per lane
- Port Configurations
 - 8 ea, x1 ports (individual drives)
 - 2 ea, x4 wide ports
- Host Bus: x8 lane, PCI Express 2.0
- PCI Data Burst Transfer Rates: Half Duplex; x8, PCIe, 4000 MB/s
- Physical Dimensions: Low Profile (2.7" x 6.6")
- Connectors: Two mini-SAS external connectors (SFF8088)
- Brackets: Full height and low profile
- Cable Support: Passive
- PCI Card Type: 3.3 V Add-in Card
- Operating Voltage: +12V +/-8%; 3.3V +/-8%
- PCI Power (Nominal): 9W typical (Airflow min 200 LFM)
- Device Support: 1024 Non-RAID SAS/SATA devices
- Environmental:
 - Operating:
 - 0°C to 55°C
 - 5 to 90% Non-condensing
 - Storage:

- -45°C to 105°C
- 5 to 90% Non-condensing
- MTBF: >3,000,000 hours
- Regulatory Certifications: EMC: Class B-US (CFR 47, P15B); Canada (ICES-003); Japan (V-3/02.04); Europe (EN55022/EN55024); Australia/ New Zealand (AS/NZS 3548); Safety: EN60950; RoHS; WEEE
- OS Support: Microsoft Windows, Linux (SuSE , Red Hat), Solaris, VMware. See <http://www.lsi.com/channel/ChannelDownloads> for details on versions

For more information of this Broadcom LSI SAS 9205-8e Host Bus Adapter, please visit Broadcome website:
<https://docs.broadcom.com/doc/12352040>

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